

## **Chapter 1**

### **Introduction**

#### **1-1. Purpose**

This pamphlet provides to users the structure of the Corps' shared data and their definitions. Included herein are the business rules expressed in the data relationships and the dictionary of data elements. The graphic depiction of the entities, data elements, and their relationships is the Command Data Model (CDM). See Appendix A for a description of the CDM. The Command Data Dictionary (CDD) in Appendix B contains the definitions of the data entities and data elements. This model forms the basic framework for all business systems development that envisions sharing of data. The goal of this pamphlet is to facilitate functional user involvement in Information System development and to ensure maximum consistency and shareability of data by providing:

- a. The means by which functional users identify data currently managed within the Corps.
- b. The means to assure common definitions of data collected and reported throughout the Corps.
- c. The mechanism to document the Data Architecture Control Committee's (DACC) consensus of the Corps' data and definitions.

#### **1-2. Applicability**

This pamphlet is applicable to all HQUSACE/OCE elements, Major Subordinate Commands (MSC), Districts, Laboratories, and Field Operating Activities (FOA).

#### **1-3. References**

- a. AR 25-1.
- b. AR 25-9.

#### **1-4. Objectives**

The objectives of the Command Data Model and Dictionary are:

- a. Facilitate user involvement in information system requirements and development.
- b. Document the business rules and relationships that govern the Corps' data.
- c. Facilitate communications among users by establishing common data structures and definitions.
- d. Provide a basis to solicit MSC participation in the Corps' data administration (new proposals, changes, refinements, etc.).
- e. Publish a record of decisions by the functional representatives of the Data Architecture Control Committee.
- f. Control data redundancies.
- g. Encourage adherence to data policies.

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h. Provide a structured approach to the development of databases and applications.

### **1-5. Scope**

a. This Command Data Model is based on the recently developed "baseline" concepts for accounting and work management. It will eventually represent all that we know about the Corps' shared data requirements.

b. The Command Data Model was originally created in March 1989, by the integration of the three baseline Prototype Development Concept (PDC) data models: Work Breakdown Structure, Work Item Resource Structure, and Accounting Structure. It was augmented by data from the Design PDCs and by reverse engineering the Automated Management and Progress Reporting System (AMPRS) and Project and Resource Information System for Management (PRISM) databases.

c. At this stage it includes data about project management and some about other

functions closely related to project management. The early accounting baseline structure will be updated by the Accounting PDC. Team when validated.

d. The key concept of the Command Data Model is that our business is related to managing work, whether it be a large multiyear project or a smaller task. Our objective is to get the work done on time and within budget. So naturally, the data model is driven by the entities: WORK-ITEM FUNDING ACCOUNT, RESOURCE ESTIMATE, COST-ACCOUNT, and MILESTONE. This version also includes those data elements that the AMPRS and PRISM functional users felt represented the current AMPRS and PRISM databases.

### **1-6. Corrections, Inquiries and Improvements**

Questions concerning any inconsistencies, inquiries, and recommendations for improvements regarding this pamphlet should be sent to HQUSACE, CEIM-PD, Washington, D.C. 20314-1000.